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WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPARTMENT of AGRICULTURE * SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

APR. 1, 1978

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made manthly ar semi-manthly from January 1 through June 1 in most states. There are about 1900 snow caurses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snaw water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in coaperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Mantana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 841 38
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Bax 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



USDA-SCS-PORTLAND, OR 197

WATER SUPPLY OUTLOOK FOR UTAH

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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In Cooperation with

UTAH STATE DEPT. OF NATURAL RESOURCES

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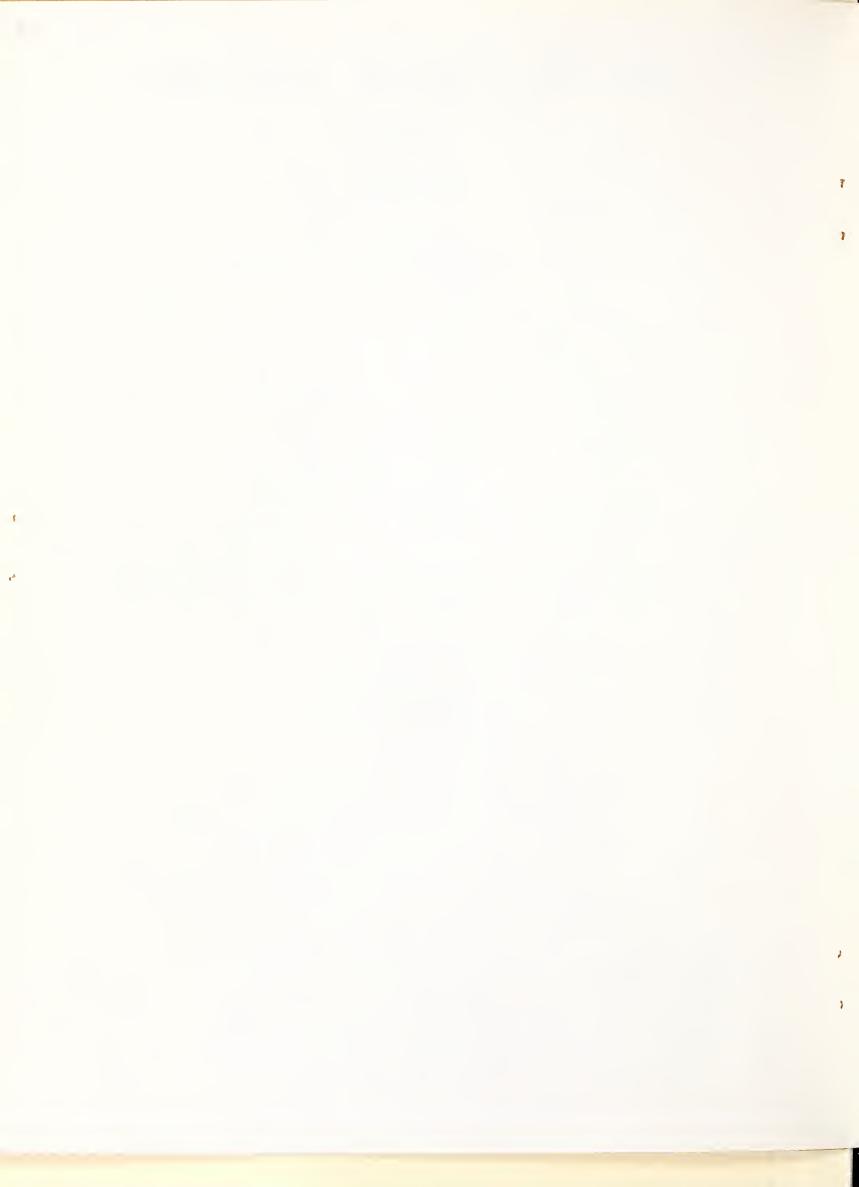
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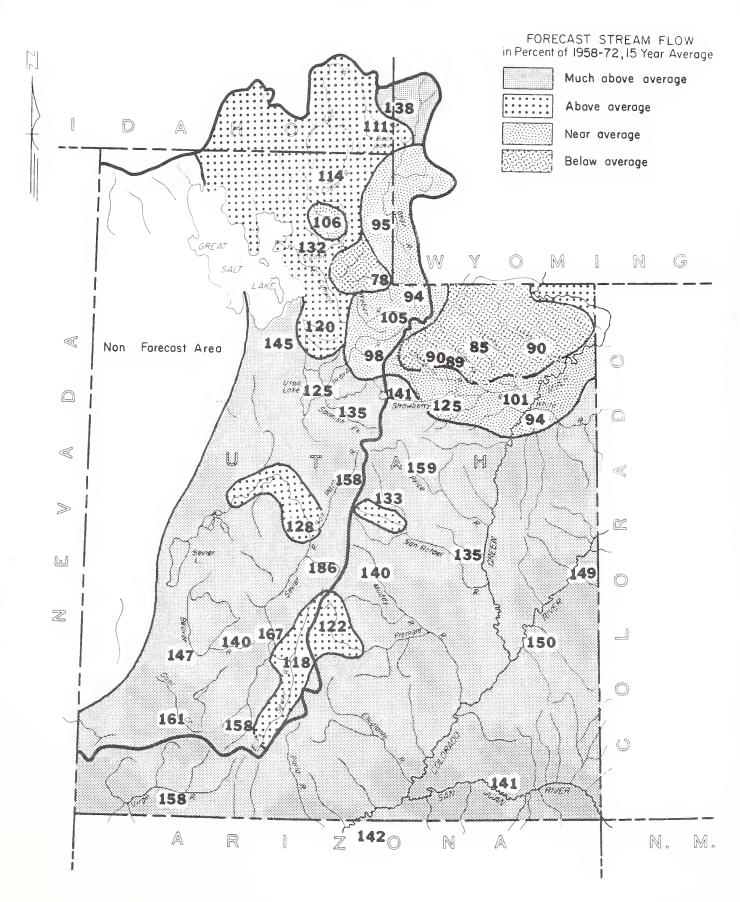
SOIL CONSERVATION SERVICE SNOW SURVEY SECTION 4012 FEDERAL BUILDING SALT LAKE CITY, UTAH 84138



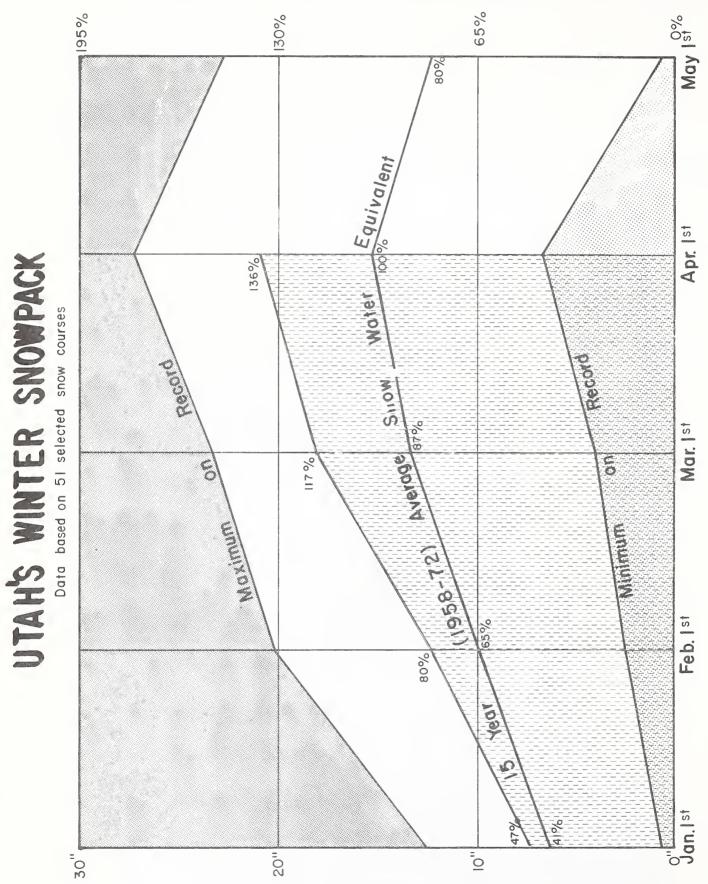
PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS





0 20" 30



INCHES OF SNOW WATER EQUIVALENT

1978 Snowpack

PERCENT OF APRIL Ist SNOW WATER EQUIVALENT

as of APRIL 1, 1978

SNOW COVER

Early March storms increased snow water content as much as six to eight times the normal amounts resulting in high improvements to the snowpack in southern Utah. Basin snow cover now ranges from 105% of the April 1 average for the Upper Green to 205% on the higher areas of the Virgin River.

The southern half of the state has the best snow cover. The Upper Sevier is 161% of average, Coal Creek 184%, Beaver River 190%, Fremont River 164%, Muddy River 168%, San RaFael 148%, Price River 150%, and Lower Sevier 145% of the April 1 average for the 1958-72 period.

Watersheds in northern Utah range from 143% on the Ogden to 105% on the Upper Green. Blacks Fork is 107%, Upper Bear 121%, Utah Lake 137%, Provo River 113%, Weber River 111%, Logan River 112%, Raft River 108%, and Salt Lake front watersheds 124%.

PRECIPITATION

March precipitation at mountain stations varied from about 57% of average at Lakefork Mountain on the south slope of the Uinta's to 803% at Little Grassy in the southwest corner of the state. Other areas of heavy precipitation were Big Flat and Merchant Valley on the head of the Beaver River, Pine Creek above Fillmore, Webster Flat on Coal Creek and Vernon Creek above Vernon. Most other areas had average to above average except the head of the Provo River, Chalk Creek, Bear Rivers and Spanish Fork River.

SOIL MOISTURE

Most valley locations are now well primed while mountain areas under the snowpack are improved, but still below average.

RESERVOIR STORAGE

Storage in 24 of Utah's key irrigation reservoirs is now 96% of the April 1 average and 15% less than last year at this time.

Reservoirs which are still in some doubt of filling are: Minersville, Piute, Sevier Bridge, Steinaker, Moon Lake, Bear Lake, and possibly Scofield, Otter Creek, East Canyon, Lost Creek and Deer Creek Reservoirs.

WATER SUPPLY OUTLOOK (continued)

STREAMFLOW FORECASTS

Streamflow forecasts improved as much as 116% in southern Utah after very heavy increases to the snowpack and decreased as much as 20% on some northern Utah streams due to below average increases to the snowpack in that area. Forecasts now range from 78% of average on Chalk Creek near Coalville to 223% for the Sevier near Circleville. Bear River is now forecast 94% at Utah-Wyoming State Line, 95% at Woodruff and 111% at Harer. Logan River is forecast 114%, Blacksmith Fork 115%, and Little Bear 106% of average. Pineview Inflow is forecast 132%, Lost Creek 82%, and Chalk Creek 78%. Weber River is forecast 105% at Oakley, 108% at Rockport, and 106% at Coalville. Provo River is forecast 98% at Hailstone and 94% at Deer Creek Dam. Utah Lake Inflow is forecast 125% and Strawberry Inflow 141% of the April-July average.

Uintah Basin streams are forecast from 91% on Rock Creek to 85% on Uinta River.

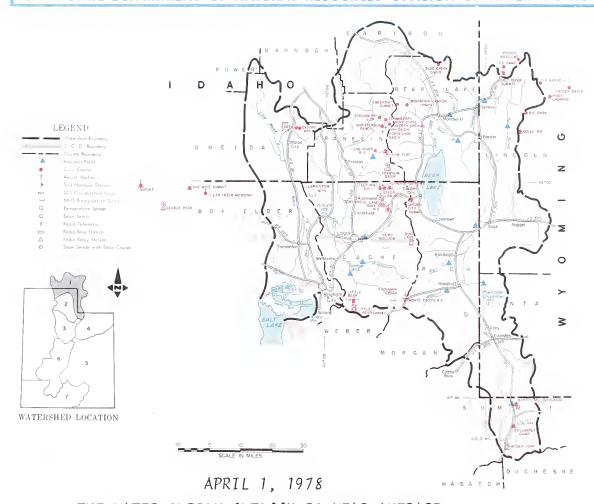
Virgin River is now expected to flow 158% of average and Coal Creek 161%. Beaver River is forecast 140% of average at Beaver and 147% for Minersville Inflow. Chalk Creek near Fillmore is forecast 161%, Oak Creek 215% and Chicken Creek near Levan 190%.

Price River is forecast 159% of average, Huntington 133%, Cottonwood 117%, Ferron 158%, Muddy 140%, and Fremont River 122%. Mill Creek near Moab is expected to flow 150% of average.

All areas are expected to have adequate water supplies except those water users depending on storage water only where last year's carryover storage was very low.

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER did not receive average increases during March and now ranges from 108% of average on the Upper Raft River to 121% on the Upper Bear. The Lower Bear and Logan Rivers are both 112% of the April 1 average.

PRECIPITATION at mountain stations ranged from 75% of the March average at Salt River Summit to 154% at Willow Flat. Garden City Summit was 94% and Monte Cristo 111%.

SOIL MOISTURE is still a little below average at higher elevations, but most valley soils are well primed.

RESERVOIR STORAGE is still below average in all reservoirs except Porcupine. Maximum elevation of Bear Lake this year is expected to be within one foot of last year.

STREAMFLOW FORECASTS range from 94% of the April-July average for the Bear River at State Line to 138% for Thomas Fork. The Bear at Harer is expected to be 111% and 98% at Randolph. Logan River is forecast 114%, Blacksmith Fork 115%, Little Bear 106%, and Cub River 110%. Water users in the area are expected to have adequate water supplies this year and peak flows are expected to be in the normal range.

FORECT Thousand Acre Feet	Percent of Average	FORECAST PERICO	LASE Yes2	ACRE FEET	RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS	A PERCENT OF
	Percent of Average	PERI(\$)	Last Year	Average +		Averaged	Last Year	
T							CHE TON	
					BEAR RIVER	31	252	115
105			41	112	UPPER BEAR RIVER	10	261	121
15.0	98	Apr-July	2.7	15.4	LOWER BEAR RIVER	21	248	112
4.2			I	1	LOGAN RIVER	4	262	112
				1 "	UPPER RAFT RIVER	3	122	108
55	115	Apr-July	16.7	48				
		1 *	6.3	34 50				
			diversio	ns				
		į.						
n o	125 15.0 4.2 100 44 155 330 129 55 36 55	125 95 15.0 98 4.2 100 100 98 44 138 155 134 330 111 129 114 55 115 36 106 55 110 ange in sto	125 95 Apr-July 15.0 98 Apr-July 4.2 100 Apr-July 100 98 Apr-July 44 138 Apr-Sept 155 134 Apr-Sept 129 114 Apr-Sept 155 115 Apr-July 36 106 Apr-June 55 110 Apr-Sept	125 95 Apr-July 28 15.0 98 Apr-July 2.7 4.2 100 Apr-July 100 98 Apr-July 3.4 44 138 Apr-Sept 3.8 155 134 Apr-Sept 26.8 330 111 Apr-Sept 34.6 129 114 Apr-July 34 55 115 Apr-July 16.7 36 106 Apr-June 6.3 55 110 Apr-Sept ange in storage and diversic	125	125 95 Apr-July 28 131	125	125

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

						FERR FEORS					
		Usable	U	SEABLE STORAG	E		PEAK FLOW (SECOND FEET) (a)				
BASIN OR STREAM	BASIN OR STREAM RESERVOIR	Capacity	This Year	Last Year	Average†	FOREÇAST POINT	Forecast Range	Average +			
BEAR RIVER	Bear Lake Woodruff Narrows	1421.0 26.5	801.6	1058.3	976.4 24.5	Big Creek nr Randolph Logan River nr Logan Woodruff Creek nr Woodruff Little Bear nr Paradise	40 - 80 875-1450 250- 350 450- 550	41b 984 240 473			
LITTLE BEAR	Hyrum Porcupine	15.3 11.3	10.5	15.6 4.4	12.9 4.9	sterie sear ar randisc	430- 330	473			
+ - 1958-72 15 Y e - estimated	ear Average Period					(a) - Maximum mean daily peak flow					

DEAK FLOWS

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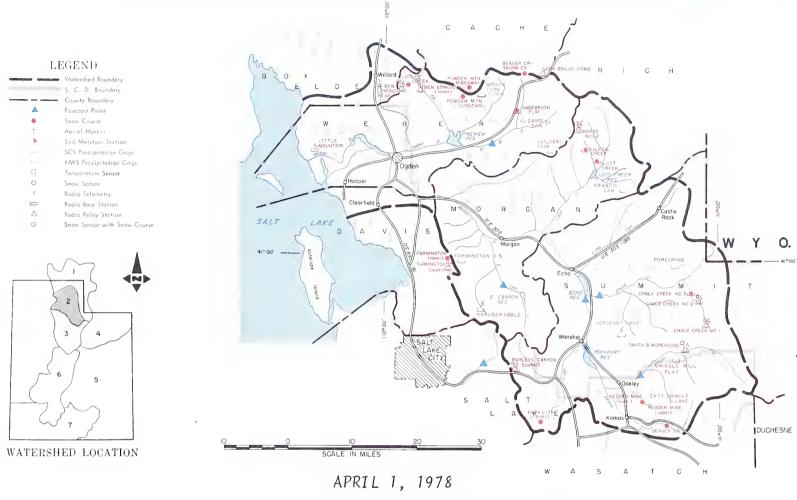


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WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is now 111% of the April 1 average on the Weber River and 143% on the Ogden. Lower elevation snow cover melted faster than usual during a warm March. Higher elevation snow courses had better than average increases except on Lost Creek, Chalk Creek and the head of the Weber.

PRECIPITATION at mountain stations ranged from 81% of average at Trial Lake to 253% at Ben Lomond Trail.

SOIL MOISTURE is still a little below average at medium and high elevations, but above average at lower elevations.

RESERVOIR STORAGE has improved and is now 145% on the Ogden and 113% on the Weber. All reservoirs are expected to fill with the possible exception of Lost Creek and East Canyon. Filling these will depend on how early and how fast runoff progresses on these watersheds.

STREAMFLOW FORECASTS range from 78% of the April-June average on Chalk Creek to 132% for Pineview Inflow. The South Fork Ogden is forecast 118%, but Lost Creek only 95% of average. The Weber is forecast 105% at Oakley, 108% for Rockport Inflow, 106% at Coalville, East Canyon 123%, and Hardscrabble 122%. Farmington Creek is forecast 129% of average. Maximum mean daily peak flow is expected to be between 650 to 900 c.f.s. on the South Fork of Ogden, 150 to 250 c.f.s. on Lost Creek and 250 to 550 c.f.s. on Chalk Creek. Near average peaks are expected on other streams in this area unless higher than average temperature and/or precipitation occur during the snowmelt period.

WEBER-OGDEN WATERSHEDS in UTAH

STREAMFLOW FORECASTS		THIS YEA	R	PAST	RECORD	SUMMARY OF SHOW MEASUREMENTS (COMPARISON WIT	H PREVIOUS YEARSI		
	FORE	CAST	FORECAST	THOUSAND	ACRE FEET	RIVER BASIN and or SUB-WATERSHED	Number of Courses	THIS YEAR AS	A PERCENT OF
BASIN STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year 3	Last Year 3 Average +	RIVER DESIR WILL OF SUST STATES	Averaged	Last Year	Average
WEBER-OGDEN RIVERS						OGDEN RIVER	6	399	143
Weber nr Oakley	105 112		Apr-June		1	WEBER RIVER	12	169	111
Rockport Reservoir Inflow Chalk Creek at Coalville	25	78	Apr-June Apr-June	4.2	104 32				
Weber nr Coalville	120	106	Apr-June	14.3	113				
Lost Creek nr Croydon, Utah	13.0 27	95 123	Apr-June	2.5	13.7				
East Canyon Creek nr Morgan Hardscrabble Crk nr Portervil	-		Apr-June Apr-June		22 14.4b				
South Fork Ogden nr Huntsylle	59	118	Apr-June	8.5					
Pineview Reservoir Inflow ²	145	132	Apr-June	13.5	110				
JORDAN RIVER & SALT LAKE									
Farmington Crk nr Farmington	101	129	Apr-July		7.8				
- Observed flow corrected for					ons				
2 - Inflow record as computed by B - Provisional flows - Subject				ation			į		
b - Average of all past record -				Ì					

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

		Usable	US	EABLE STORA	G E	
BASIN OR STREAM	RESERVOIR	Capacity	This Year	Last Year	Average +	
OGDEN Cau	Causey	6.9	3.8	3.6	2.8	
	Pineview	110.1	65.0	58.0	44.7	
WEBER	East Canyon	48.1	24.5	33.5	21.0	
	Echo	73.9	51.0	50.8	45.7	
	Lost Creek	20.0	11.2	13.3	12.0	
	Rockport	60.9	36.7	30.6	27.1	
	Willard Bay	193.3	151.4	152.8	136.5	
+ - 1958-72 15	Year Average Period					

50050157 00007	PEAK FLOW (SE	COND FEET) (a)
FORECAST POINT	Forecast Range	Average †
Lost Creek nr Croydon South Fork Ogden nr Huntsville Chalk Creek nr Coalville (a) - Maximum mean daily peak flow	150 - 250 650 - 900 250 - 550	206b 697 373

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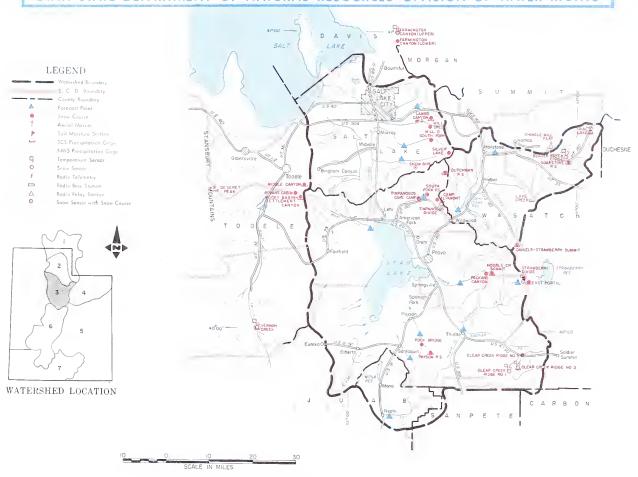


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UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



APRIL 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 124% of the April 1 average for the watersheds above Salt Lake to 137% for the watersheds above Utah Lake. Tooele Valley is 133% of average. The Upper Provo River is 113% of average after receiving less than average March increases to the snowpack.

PRECIPITATION at mountain locations ranged from 78% of average at Soapstone R.S. to 240% at Dutchman R.S.

SOIL MOISTURE is still a little below average on higher watersheds, but valley soils are well primed.

RESERVOIR STORAGE is 15 to 23% above average in Utah Lake and Strawberry as a result of good carryover from last year, but below average in Deer Creek.

STREAMFLOW FORECASTS range from 94% of average for the Provo at Deer Creek Dam to 214% for Vernon Creek. Strawberry Inflow and Hobble Creek are forecast 141% of average, American Fork 131%, Spanish Fork 135%, Payson Creek 132%, and Utah Lake Inflow 125% of average. The creeks above Salt Lake City range from 117% on Little Cottonwood to 129% on Emigration Creek. Big Cottonwood and Mill Creek are forecast 119%. City Creek and Parleys are forecast 120% of the April-July average. Settlement Creek above Tooele is forecast 145% of average. Maximum mean daily peak flows in this area are expected to be near normal except for Vernon Creek which should be above normal due to better than twice average snowpack.

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD		SUMMARY OF SHOW MEASUREMENTS (COMPARISON WITH	-		
		CAST	FORECAST	THOUSANO	Y	RIVER BASIN and or SUB-WATERSHED	Number of Courses		A PERCENT OF
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOO	Last Year 2	Average +		Averaged	Lasi Year	Average
PROVO RIVER AND UTAH LAKE						PROVO RIVER & UTAH LAKE	14	298	137
Provo nr Hailstone ¹	I	98	Apr-July	31.5	102				
Provo below Deer Creek Dam¹	I	94	Apr-July	50.1	111	JORDAN RIVER & SALT LAKE	6	178	124
American Fork nr American Fork		131	Apr-July	7.5a	29				
Hobble Creek nr Springville	22.5	141	Apr-July		16	TOOELE VALLEY	4	172	133
Strawberry Reservoir Inflow			Apr-July	5.7	45				
Spanish Fork at Thistle	43	135	Apr-July		32				
Payson Creek nr Payson	8.3	132	Apr-July		6.3				
Utah Lake Inflow	260	125	Apr-July	124.7	208				
ORDAN RIVER & SALT LAKE									
Little Cottonwood Crk nr SLC		117	Apr-July	19.8	35				
Big Cottonwood nr SLC	43	119	Apr-July	18.8	36	1 011 51			1.
Parley's Creek nr SLC	13.8	120	Apr-July	3.5	11.5	1 - Observed flow corrected for			diversio
Mill Creek nr SLC	6.8	119	Apr-July		5.7	2 - Provisional flows - Subject	to correc	tion	
Emigration Creek nr SLC	4.0	129	Apr-July		3.1	a - Partly estimated			
City Creek nr SLC	8.3	120	Apr-July		6.9				
COOELE VALLEY			-						
Vernon Creek nr Vernon	1.5		Mar-July	0.6	0.7				
Settlement Crk nr Tooele	3.2	145	pr-July		2.2				

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

PEAK	FLOWS
$\overline{}$	

					TEAR TEOMS					
		USEABLE STORAGE				PEAK FLOW (SECOND FEET)				
RESERVO:R	Capacity	This Year	Last Year	Average†	FORECAST POINT	Forecasi Range	Average +			
Strawberry	270.0	147.2	210.2	119.2	Hobble Creek or Springville	250 - 450 350 - 700	210 365			
Utah Lake Settlement Creek	883.9	738.0	790.2	642.3	Big Cottonwood nr Salt Lake City	420 - 500	310			
Vernon Creek Deer Creek	0.6	0.6 86.0	0.6 96.7	 95.8	(a) - Maximum mean daily peak flow					
	Utah Lake Settlement Creek Vernon Creek	Strawberry 270.0 Utah Lake 883.9 Settlement Creek 1.2 Vernon Creek 0.6	Compacing Compacing Thus Year	Strawberry 270.0 147.2 210.2	Control Cont	Use Capacity Use Capacity This Year Leaf Year Average	Use Use			

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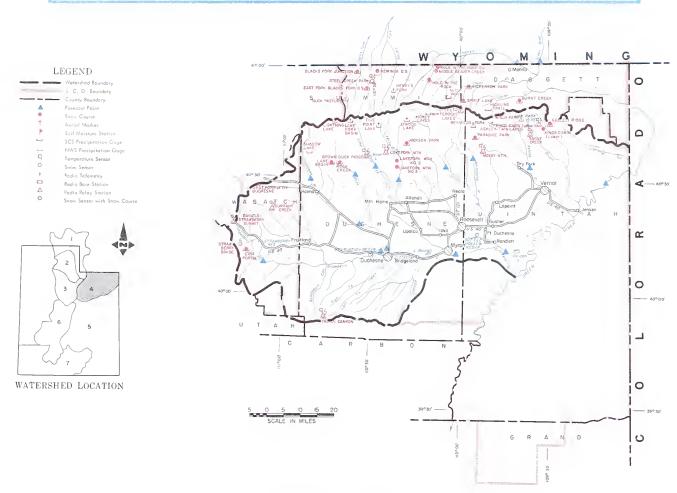


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UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



APRIL 1, 1978 THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER ranges from 107% of average on Black's Fork to 135% on Strawberry River. Ashley Creek is 116%, Uintah-Whiterocks 125%, and Lakefork-Yellowstone 115%. Aerial markers in the Uinta's have not been flown due to poor weather.

PRECIPITATION at mountain stations ranged from 57% of the March average at Lakefork Mountain to 264% at Indian Canyon.

SOIL MOISTURE is still below average at higher elevations.

RESERVOIR STORAGE is still below average. Moon Lake is 69% of its April 1 average and Steinaker is 34% of average.

STREAMFLOW FORECASTS range from 85% of the April-July average on the Uintah to 125% for the Strawberry at Duchesne. The Duchesne is forecast 90% at Tabiona, 94% at Duchesne, 101% at Myton, and 94% at Randlett. Rock Creek is forecast 91% of average, Lakefork 89%, Yellowstone 88%, Whiterocks 86%, Ashley Creek 90%, Henry's Fork 89%, Black's Fork 90%, and Flaming Gorge Inflow 118%. Currant Creek is forecast 127% of the April-July average. Maximum mean daily peak flows in this area are expected to be near normal during the snowmelt period unless above normal precipitation occurs during the melt period.

UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD		SUMMARY OF SHOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)				
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	FORECAST PERIOO	Last Year 2	Average +	RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS	A PERCENT OF	
DUCHESNE RIVER						DUCHESNE RIVER - TOTAL	11	413	129	
Duchesne nr Tabiona Duchesne at Duchesne	94 166		Apr-July Apr-July	19.2 48.4	104 177	LAKEFORK-YELLOWSTONE CREEKS	2	626	115	
Strawberry at Duchesne Rock Creek nr Mtn. Home		125	Apr-July Apr-July	10.1	56 94	STRAWBERRY RIVER	4	338	135	
Currant Creek nr Fruitland Lakefork below Moon Lake	25 62	127	Apr-July Apr-July	30.2	19.7	UINTAH - WHITEROCKS RIVERS	2	523	125	
Yellowstone nr Altonah Duchesne at Myton	57	88	Apr-July Apr-July	29.1	65 218	ASHLEY CREEK	2	498	116	
Whiterocks nr Whiterock Uintah nr Neola	50 75	86	Apr-July Apr-July	24.2	58 88	BLACK'S FORK	4	160	107	
Duchesne at Randlett ¹	250		Apr-July	13.1	267					
FLAMING GORGE TO DUCHESNE RIVER										
Henry's Fork at Linwood Black's Fork at Millburne Flaming Gorge Inflow	40 85 1390	90	Apr-Sept Apr-July	3.6 43.6 233.0	45 94					
Ashley Creek nr Vernal	45		Apr-July Apr-July	14.2	1174 50	1 - Observed flow corrected for 2 - Provisional flows - Subject	change in to correc	storage and	diversion	

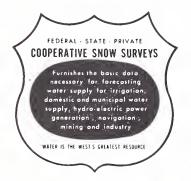
usand Acre Feet) мю-монтн	READING				PEAK FLOWS			
	Usable Capacity	USEABLE STORAGE				PEAK FLOW (SECOND FEE P)		
KESEKVOIK		This Year	Last Year	Average†	FORECAST POINT	Forecast Range	(verage +	
Steinaker	33.3	8,8	21.0	26.0	Strawberry at Duchesne	750 - 1500	628	
Flaming Gorge	3749.0	1998.0	2756.4	1588.0		000 - 1300	906	
Moon Lake	35.8	13.3	8.5	19.2	(a) - Maximum mean daily peak flow			
Starvation	165.3	147.2	165.9e					
Bottle Hollow	11.3	10.2	10.6					
	RESERVOIR Steinaker Flaming Gorge Moon Lake Starvation	Steinaker 33.3 Flaming Gorge 3749.0 Moon Lake 35.8 Starvation 165.3		Usable Clearity This Year Losi Year	Useh Useh			

^{+ -} 1958-72 15 Year Average Period

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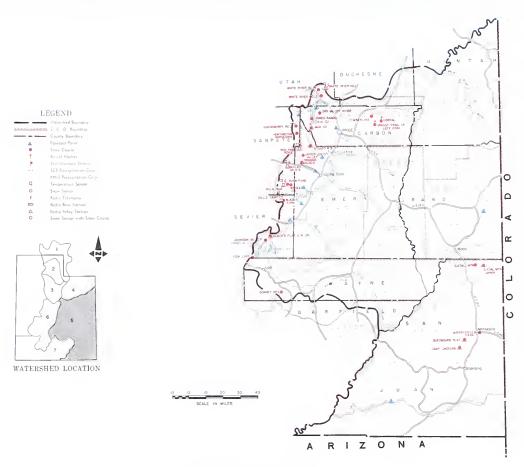


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CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



APRIL 1, 1978 THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 145% of average on the Blue Mountains to 164% on the Fremont River and LaSal Mountains. The Price River is 150% and San Rafael is 148% of the April 1 average.

PRECIPITATION at mountain stations ranged from 100% at Buck Flat to 240% at Fish Lake.

SOIL MOISTURE at higher elevations is still below average. Valley soils are near average.

RESERVOIR STORAGE is still below average in Scofield Reservoir. Huntington and Joe's Valley are a little above the April 1 average.

STREAMFLOW FORECASTS now range from 117% of the April-July average on Cottonwood Creek to 159% for Scofield Inflow and Price River. Huntington Creek is forecast 133% of average, Ferron Creek 158%, and Muddy Creek 140%. Seven Mile Creek is forecast 122% and Mill Creek near Moab 150% of average. The Green at Green River is forecast 135% and the San Juan 141% near Bluff. Maximum mean daily peak flows in this area are expected to be above normal, but should not cause damage unless excessive temperature and/or precipitation occurs during the snowmelt period.

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

IFLOW FORECASTS THIS YEAR PAST RECORD SUMMARY OF SNOW MEASUREMENTS AND ARRIVADA FORECASTS								
FORE Thousand Acre Feer	Percent of Average	FORECAST PERIOD		T	RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS	A PERCENT OF
					PRICE RIVER	10	583	150
16.1				10.0				
54		1 .			SAN RAFAEL RIVER	8	337	148
102	159	Apr-July		64Ъ				
					FREMONT RIVER	4	316	164
60	133	Apr-July	11.3	45	TACAT MOUNTAINS	2	388	164
54	117	Apr-July	10.4	46b	LASAL MOUNTAINS			
5.5	158	Apr-July	15.9	35	BLUE MOUNTAINS	2	925	145
						9.11	J J	143
25	140	Apr-July	3.5	17.7		1		
•								
4215	149	Apr-July	534.6	2835				
3842	135	Apr-July	882.7	2839				
7.4		Apr-July	1.4	4.9		1		
1	1	Apr-July		597				
1203	141	Apr-July	122.8	853		1		
					1 - Observed flow corrected for	thange in	storage an	diversions
7.8	122	Apr-July		6.4b	2 - Provisional flows - Subject	to correc	tion	
	Thousand Acro Feet 16.1 54 102 60 54 55 25 4215 3842 7.4 750 1203	FORECAST Thousand Accepted Parcent of	FORECAST FORECAST PERIOD	FORECAST THOUSAND THOUSAND	FORECAST FORECAST THOUSAND ACRE FEET	FORECAST FORECAST PERIOD CAST YEAR 2 Average	FORECAST FORECAST THOUSAND ACRE FEET RIVER DANN and or SUBAATERSHED National Acres Feet Call Year 2 Average PRICE RIVER 10	FORECAST FORECAST THOUSAND ACRE FEET RIVEP BANK and or SUB-MATERIALD THIS YEAR AS A CREE FEET RIVEP BANK and or SUB-MATERIALD THIS YEAR AS A CREE FEET RIVEP BANK and or SUB-MATERIALD THIS YEAR AS A CREE FEET RIVER THIS YEAR AS A CREE FEET THIS YEAR AS A CREE FEET

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

		Usable	USEABLE STORAGE					
BASIN OR STREAM	RESERVOIR	Capacity	This Year	Lasi Year	Average†			
PRICE RIVER	Scofield	65.8	19.7	30.2	31.0			
SAN RAFAEL	Huntington North	3.9	3.9	4.3	2.9			
	Joe's Valley	54.6	35.1	37.9	32.9			
	Mill Site	16.7	2.0	2.0				
SAN JUAN	Navajo	1696.0	960.7	1103.6				
	Year Average Period all past record - 1							

PF	816	FI	DW9	

	PEAK FLOW (SECOND FEET) (a)					
FORECAST POINT	Forecast Range	e Average				
Ferron Creek near Ferron	500-800	419				
Muddy Creek near Emery	120-250	157				
(a) - Maximum mean daily peak flow						

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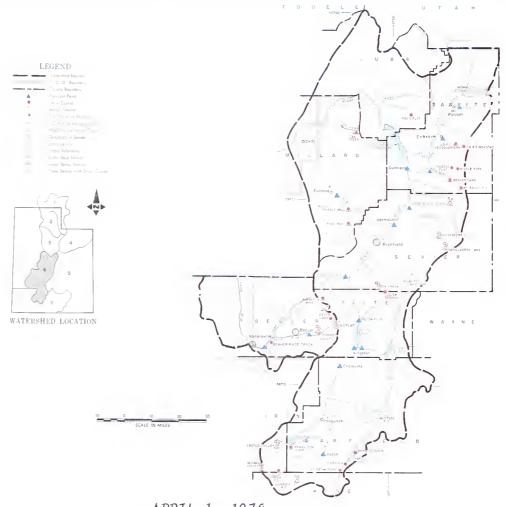
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SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



APRIL 1, 1978

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE FOR NATURAL FLOW USERS AND NEAR AVERAGE FOR MOST RESERVOIR STORAGE WATER USERS

SNOW COVER improved 7 to 50% during March and now ranges from 138% of the April 1 average on the East Fork Sevier to 185% on the Beaver River. The South Fork is now 161% and the Lower Sevier 145%. Near record increases were recorded at Pine Creek above Fillmore (11.1 inches of water increase) and Big Flat at the head of Beaver River (13.5 inches increase).

PRECIPITATION at mountain locations ranged from 313% of average at Merchant Valley to 82% at GBRC Meadows. Most other areas ranged from near average to better than twice average.

SOIL MOISTURE is below average at higher elevations and near average in the valleys.

RESERVOIR STORAGE is below average except for Otter Creek which is 110% of the April 1 average. Piute and Otter Creek Reservoirs may come close to filling, but Sevier Bridge, and Minersville will likely only be about half useable capacity. STREAMFLOW FORECASTS improved greatly after heavy increases to the snowpack and now range from 123% of average for Antimony Creek to 223% for the Sevier near Circleville. The Sevier is forecast 158% of average at Hatch, 189% at Kingston, and 128% at Gunnison. Clear Creek is forecast 166% and the East Fork Sevier 118%. Salina Creek is forecast 186% of average and Chalk Creek 161%. Beaver River is forecast 140% near Beaver and 147% for Minersville Inflow. Ephraim and Pleasant are 160% and 158% respectively. Maximum mean daily peak flows are expected to be above normal on Beaver River, Chalk Creek, Salina Creek, Clear Creek and the South Fork of the Sevier. Panguitch Creek has potential for a high peak flow if warmer than average temperature and/or above average precipitation occur early in the snowmelt season.

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

STREAMFLOW FORECASTS	THIS YEAR PAST RECORD			PAST	RECORO	SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)					
		CAST	FORECAST		ACRE FEET	RIVER BASIN and or SUB-WATERSHED	Number of Courses		A PERCENT OF		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOO	Last Year 2	Average +		Averaged	Lasi Year	Average		
SEVIER RIVER						UPPER SEVIER RIVER	9	424	154		
Sevier at Hatch	63	158	Apr-July	10.6	40	East Fork Sevier	4	308	138		
Sevier nr Circleville	62	223	Apr-July		28	South Fork Sevier	6	520	161		
Sevier nr Kingston	39	189	Apr-July	1.9	21		3.4	010	1.0		
Antimony Crk nr Antimony	9.0	123	Apr-July		7.3	LOWER SEVIER	14	210	145		
East Fork Sevier nr Kingston	17.0	118	Apr-July		14.4						
Sevier below Piute Dam	55	167	Apr-July		33	BEAVER RIVER	3	356	185		
Clear Crk nr Sevier (abv Div)	25	166	Apr-July	4.1	15.0						
Inflow			1								
Kingston to Vermillion Dam	60	120	Apr-June		50						
Vermillion Dam to Gunnison	55		Mar-June		39						
Salina Creek at Salina	15.1		Apr-June	0.1	8.1b						
Sevier nr Gunnison	50		Apr-July	15.4	39						
Chalk Creek nr Fillmore	25.0	161	Apr-July		15.5b						
Chicken Creek nr Levan	5.5	190	Apr-July		2.9b						
Oak Cr. nr Oak City	2.8	215	Apr-July		1.3b						
SAN PITCH RIVER		1/0									
Ephraim Creek nr Ephraim	22		Apr-July		13.9Ъ						
Pleasant Crk nr Mt. Pleasant	12.3	158	Apr-July		7.8						
BEAVER RIVER	20	740		6.1							
Beaver nr Beaver	28		Apr-July	!	20	1 - Observed flow corrected for			diversions		
North Creek (Combined)	15.0	128	Apr-July		11.7	2 - Provisional flows - Subject	to correc	tion			
Minersville Reservoir Inflow	8.5	147	Apr-June		5.8						
	1	I		1	1						

RESERVOIR STORAGE (Thousand Acre Feet) mid-month reading

		Usable	USEABLE STORAGE						
BASIN OR STREAM	RESERVOIR	Capacity	This Year	Last Year	Averaget				
SEVIER RIVER	Gunnison Otter Creek Piute Sevier Bridge	18.2 52.5 71.8 236.0	9.1e 37.3 24.0 97.8	4.4 34.1 29.4 125.1	14.9 34.0 46.8 116.1				
BEAVER RIVER	Minersville (Rky Fd)	23.3	7.9	9.6	14.3				
b - Average of	1	ess than		9.6					

^{+ - 1958-72 15} Year Average Period | e - Estimated

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow	Forecast Oate	Average Oate
	Value	Stream Will Recede	of Low Flow
	Second Ft.	to Low Flow Value	Value
Sevier at Hatch (upper)	100	Aug 15	July 10
Sevier at Circleville	90	Jul 25	June 24
Clear Creek nr Sevier-above Div.	5	Aug 13	July 28
Salina Creek at Salina	25	June 15	June 10

PEAK FLOWS

	PEAK FLOW (SECONO FEET) (a)						
FORECAST POINT	Forecast Range	Average					
Sevier River at Hatch Sevier River nr Circleville . Sevier River nr Kingston Clear Creek nr Sevier Salina Creek nr Salina Beaver River nr Beaver (a) - Maximum mean daily peak flow	570 - 850 478 - 690 500 - 650 260 - 320 290 - 360 350 - 500	418 304 263 170 235 212					

PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Oelivered Ouring 15 year Period	Forecast Period
SEVIER RIVER Panguitch Valley Circle Valley Sevier Valley Below Vermillion Dam	100	81	April-Sept
	90	65	April-Sept
	55	38	April-Sept
	63	55	April-Sept

Inflow to Sevier Bridge Reservoir for the October-March period was about 68,800 acre feet.

The flow below Vermillion - Above 360 cfs is expected to be about 4,000 acre feet.

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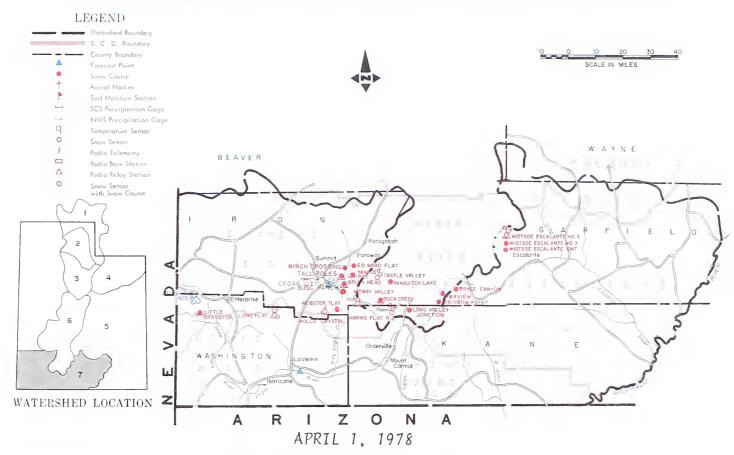


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EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER now ranges from 118% of the April 1 average on Parowan Creek to 205% on the Virgin River. Higher elevations had heavy increases while lower areas like the Enterprise-New Harmony area lost snow cover. This area is now only 125% of average. Coal Creek is now 184% of average. Webster Flat received over six times the normal March snow water increase.

PRECIPITATION at mountain stations ranged from 124% of average on Parowan Creek to 317% at Webster Flat.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average after heavy rains and low elevation snowmelt filled most reservoirs of the area early in March.

STREAMFLOW FORECASTS have improved on streams heading at higher elevations after near record monthly increases to the snowpack. Virgin River is now forecast 158% for the April-June period and the Santa Clara remained at 150% of average. Coal Creek is now expected to flow 161% of its April-July average and Lake Powell Inflow raised to 142% of its average. Snowmelt peak flows are expected to range from 1180 to 1600 c.f.s. for the maximum mean daily flow on the Virgin at Virgin and from 250 to 500 c.f.s. on Coal Creek. High flows have already occurred on the Santa Clara and Shoal Creek, as the low snow was rained off early in March and should not recur unless much above average temperature and/or precipitation occur again to melt the high elevation snow faster than usual. Good water supplies are expected for all users in this area.

		R	PAST RECORD		SUMMARY OF SNOW MEASUREMENTS OMPARISON WITH PREVIOUS YEAR I						
		FORECAST	THOUSAND .	Υ -	RIVER BASIN INC. SUB-WATERSHED	Number of Unurses		S A PERCENT OF			
Thousand Acre Feer	Percent of Average	PERIOD	Last Year 2	Average †		Averaged	Last Year	A Arrange			
					COAL CREEK	3	631	184			
1	1	1 '	2 1 . 7 .		VIRGIN RIVER	2	737	205			
5.4	120	Apr-June	0.8	3.00	PAROWAN CREEK	4	249	118			
26	161	Apr-July	3,6	16.1	ENTERPRISE - NEW HARMONY	2	1480	125			
978U	142	Apr-July	1130	6881							
to corr	ection	ı									
						1 3					
	76 5.4 26	76 158 5 · 4 150 26 161 9780 142	Thousand Pricent of Accesses PERIOD	Thousand Accesses	Thousand Price P	Thousand Acres Precise Period Coal result	Thouswid Precent of Acres PERIOD CANTES PERIOD PERIOD	TROUBLING PRECIDIT PRINCE PRINC			

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

KEZEKANIK ZINKARE (IU	OUSAND ACTE FEET) MID-MONTH	READING				PEAK FLOWS					
		Usable	U	SEABLE STORA	G E		PEAK FLOW (SECOND FEET(a)				
BASIN OR STREAM	M RESERVOIR Usable Capacity This Year Last Year		Last Year	Averaget	FORECAST POINT	Forecast Range	Average †				
COLORADO	Lake Powell Blue Mesa	25002.0 829.5		17943 0 379.7		Coal Creek nr Cedar City Virgin nr Virgin	250 - 500 1180 - 1600	245 631b			
	all past record - 1 Cear Average Period		15 years			(a) - Maximum mean daily peak flow					

08 - 1998-1972 period

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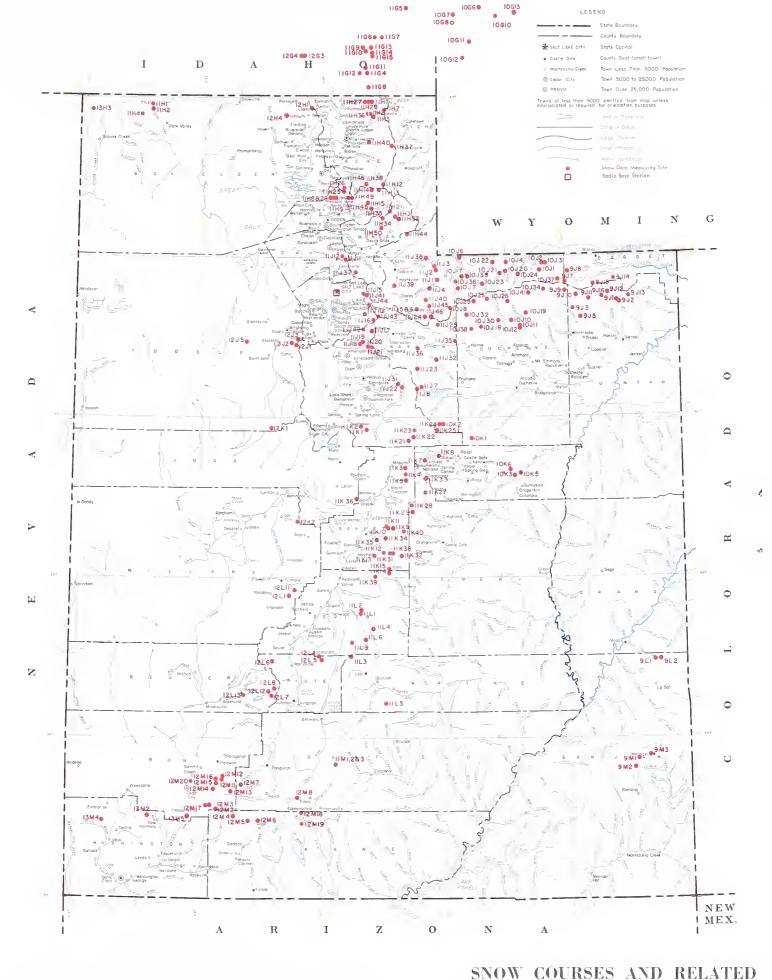
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SNOW WOOM		THIS YEAR PAST RECORD				PRECIPITATION (Inches) CURRENT INFORMATION FROM APPROX. DCT TO DATE					70.0.7
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Cont	Average †	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
GREAT BASIN						Reading	Trecipitation				71101020
UPPER BEAR RIVER (Above Harer, Idaho)											
Big Park Burts-Miller Ranch	3/31 3/27 3/30	63 13 37	25.8 5.1 16.4	8.5 4.1 7.6	21.2 5.9 12.5	3/27	2.10		8.94	9.03a	99
CCC Camp Hayden Fork	3/27 3/31	47 61	17.2	9.9 7.7	16.2b 18.9	3/27	3.70		22.72	20.48a	111
Kelly R.S. Monte Cristo R.S.	3/29 3/31	62 95	27.7	11.2	26.1	3/29	5.26	4.73b	28.55	27.62b	103
Poison Meadows Salt River Summit Snyder Basin Stillwater Camp	3/30 3/31 3/27	53 52 34	21.6 22.4 11.8	7.9 5.7 6.9	16.2 16.6 11.3	3/30	1.92 2.49	2.57	22.25	16.74	133 111
LOWER BEAR RIVER (Below Harer, Idaho)	3, 2,										
Bug Lake Christensen Ranch Cliff Canyon Cub River R.S. Daniels Creek Dry Basin Dry Creek Flat Emigrant Summit Emigration Canyon Franklin Basin Garden City Summit Horseshoe Basin Klondike Narrows Liberty Springs Little Bear (lower) Little Bear (upper) Lower Elkhorn Oxford Mountain Slug Creek Divide Steep Hollow #1 Steep Hollow #2 Strawberry Creek Strawberry Mink Divide Tony Grove Lake Tony Grove Is. Upper Elkhorn Willow Flat Worm Creek	3/29 3/30 3/30 3/30 3/30 3/30 3/30 3/30 3/3	47 12 22 7 10 83 4 68 25 71 46 76 50 116 21 27 32 18 50 102 69 17 59 98 27 63 34 48	20.5 5.0 9.5 3.2 3.2 36.9 1.7 28.9 10.8 33.1 19.4 35.4 22.8 50.4 8.3 11.4 15.5 6.0 21.0 43.4 32.7 6.7 27.0 47.0 12.3 25.5 15.2 22.1	4.9 2.8 5.7 1.3 13.2 0.0 10.1 4.7 14.0 5.3 13.4 9.0 16.4 5.1 6.8 5.1 3.8 8.3 16.4 13.0 4.7 9.0 15.2 4.1 5.9 6.0 8.3	7.1 	3/29 3/30 3/29 3/30	2.85 4.00	3.59b 2.51a	23.39a 27.77 22.95 32.72	19.72b 22.62b	119 123 127 144
RAFT RIVER Clear Creek Meadows George Peak One Mile Summit Vipont (A)	3/28 3/28 3/28 3/28	68 77 16 42	26.2 31.0 6.1 16.0	9.5 9.8 4.0 6.5	20.9 7.8 15.8b				Maria de la companya		
OGDEN RIVER	3,20	16		0.5	10.00						
Beaver Creek-Skunk Creek Ben Lomond Peak Ben Lomond (lower) Ben Lomond Trail	3/29 3/29 3/29	29 117 54	14.1 50.6 23.7	3.5 11.6 5.3	11.5 35.4 14.5	3/29 3/29	7.86 8.12	3.48 3.60a	37.21	24.73 24.12a	150
Causey Dam Cutler Creek Dry Bread Pond	3/29 3/29 3/29	96 50 0	41.3 23.3 0.0	9.2 8.6 0.0	25.7b 18.1	3/29	2.63	2.28a 3.56b	12.93	14.31a 20.77b	90 107
Sagebrush Flat WEBER RIVER	3/ 23		0.0	0.0	1.0	3/29	3.08	Z.ZÖD	15.39	14.32b	107
Beaver Creek R.S. Chalk Creek #1 Chalk Creek #2 Chalk Creek #3 East Shingle Lake (A) Farmington Canyon (lower) Farmington Canyon (upper)	3/28 3/27 3/27 3/27 3/27 4/4 3/29 3/29	19 63 40 16 99 68 94	7.8 23.7 14.2 6.0 36.6 30.1 39.5	3.4 11.5 10.0 6.3 13.0 13.8	7.2 22.4 15.3 7.4 22.2 29.5	3/27 3/29	2.47	4.68	13.60	12.12a 26.82	112 127
Farmington G.S. Horse Ridge	3/29	49	22.0	9.7	22.8b	3/29 3/29	8.14 4.91		36.63 26.56	26.22a	101

SNOW	THIS YEAR PAST RECORD						PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conta	nt (inches) Average +	Data of	Month's	Average †	FROM Al	Average +	Percent of	
WEBER RIVER (cont'd)		1		Last Year	Average	Reading	Precipitation				Average	
Killfoil Creek Lost Creek Reservoir Park City Summit Parley's Canyon Summit Redden Mine (lower) Redden Mine (upper) Sergeant Lake (A) Smith & Morehouse	3/29 3/29 3/31 3/30 3/28 4/4 3/27	34 0 69 53 50 48 37	14.0 0.0 28.3 22.2 19.8 18.2	5.5 0.0 18.9 13.7 10.5	13.6a 1.5a 17.9 18.5		2.71 5.45 4.12	3.86	12.49 27.27 25.75 20.00	 22.02 19.97a	 124 129	
	3/ 2/] 37	14.0	7.5	13.25	3/2/	7.12	3.13	20.00	10.05	111	
PROVO RIVER & UTAH LAKE Beaver Creek Divide Camp Altamont Clear Creek Ridge #1 Clear Creek Ridge #2 Clear Creek Ridge #3 Dutchman R.S. Hobble Creek Summit Packard Canyon Payson R.S. Rock Bridge Soapstone R.S. South Fork R.S. Timpanogos Cave Camp Timpanogos Divide Trial Lake	3/28 3/29 3/30 3/29 3/30 3/29 3/29 3/29 3/28 3/28 3/28 3/31 3/31 3/29 3/28	33 52 57 42 14 59 50 33 56 28 35 14 0 83 74	13.6 21.7 23.8 15.8 5.9 25.5 20.2 13.6 24.4 14.2 13.2 5.9 0.0 33.0 27.4	5.2 3.3 9.0 6.8 0.2 6.9 5.9 4.9 11.1 8.9 5.9 1.3 0.6 7.9 9.3	13.6 18.1 13.4 5.5 16.0 12.9 8.2 17.3 10.8 12.1 2.9 0.8 23.1 23.9	3/29 3/29 3/29 3/28 3/28 Not A 3/28	2.20 7.80 6.20 2.85 1.93 vailable 3.03	2.78 3.06 2.47	19.90 32.90 22.90 23.50 18.18	15.30 20.95b 16.66 17.69 15.69 24.50 23.02	130 157 137 133 116	
JORDAN RIVER & GREAT SALT LAKE Bevan's Cabin Deseret Peak Lamb's Canyon #2 Middle Canyon Mill Creek Mill D South Fork Mt. Dell Dam Rocky Basin-Settlement Canyon Silver Lake (Brighton) Snow Bird (Gad Valley) Vernon Creek	3/31 3/30 3/31 3/29 3/31 3/31 3/31 3/31 3/25	20 73 40 30 57 46 80 69 107 44	8.5 30.5 18.0 13.0 22.1 20.4 35.0 28.7 44.2 18.2	10.2 12.5 11.6 11.1 14.1 14.2 19.0 12.1 17.8 3.0	10.0 13.0 19.4 25.0 24.8 8.0b	3/31	4.34 6.60 vailable vailable 8.50	3.23b 2.27 5.02	21.24 28.66	16.65b		
UPPER SEVIER RIVER (South of Richfield, Utah) Box Creek Bryce Canyon Castle Valley Duck Creek R.S. Farview Harris Flat Kimberly Mine Midway Valley Panguitch Lake Rainbow Point Squaw Springs Widtsoe R.S. 3NNE	3/27 3/31 3/27 3/31 3/30 3/31 3/27 3/31 3/27 3/27	44 10 38 53 27 29 52 79 20 Data De	15.4 2.8 15.9 22.8 8.8 15.6 19.5 32.4 7.7 ayed 10.8	7.7 0.0 4.6 0.3 1.2 0.0 9.8 7.1 0.1 0.6 4.1	12.9 2.7 12.0 12.4 - 6.9 15.6 20.8 2.9 - 6.4	3/27 3/27 3/31 3/27 3/31 3/27 Not A	5.35 5.10 7.70 6.50 .6.90 2.70	4.08b	17.58 17.10 25.30 21.95 25.80 10.00	13.70 14.55 17.25b 17.32b 7.19b	128 118 147 127 139	
LOWER SEVIER RIVER (Including San Pitch River) Beaver Dams Farnsworth Lake G.B.R.C. Headquarters G.B.R.C. Majors G.B.R.C. Meadows G.B.R.C. Oaks Gooseberry R.S. Mammoth-Cottonwood Creek Middle Fork Mt. Baldy R.S. Mt. Terril Cabin (A) Oak Creek Pickle Keg Springs Pine Creek Ree's Flat	3/28 3/30 3/28 3/28 3/30 3/30 3/28 3/28 3/28 3/27 3/28	42 60 51 80 33 70 85 88 117 48 62 66 44	17.0 23.1 21.6 32.1 15.0 29.4 30.4 34.2 27.4 18.1 25.9 30.2 17.3	9.2 13.1 10.3 14.3 9.2 10.1 14.4 12.0 9.0 11.6 13.1 10.0	11.0 18.5 16.4 22.7 11.2 20.6 23.7 22.5 11.5a 16.0b 14.0	3/28 3/30 3/28 3/31 3/28 3/31 3/30 3/30 3/28 3/28 3/28	2.70 5.75 3.35 3.23 3.60 3.55 5.60 6.10 4.00 	4.34 3.30 1.80 4.40 2.20 2.89b 3.29b 3.42b	20.97 21.00 24.20 13.10 29.85 15.65 17.95 29.73 26.50 22.08	13.27 19.10 17.60 9.80 22.40 11.80 12.95b 18.64 17.28b 14.64a 22.42	158 110 138 134 133 133 139 159 153 151	

SNOW		THIS YEAR PAST RECORD PRECIPITATION (Inches)									
ORAINAGE BASIN and/or SNOW COURSE NAME	Oate of Survey	Snow Oepth (Inches)	Water Content (Inches)	Water Conte	Average †	Oate of Reading	Month's Precipitation	ATION Average +		Average +	Percent of Average
LQWER SEVIER RIVER (Cont'd)											
Shingle Mill Thistle Flat	3/28 3/28	23 54	9.4 22.5	7.2 12.2	8.5b 15.8	3/28		2.98b	19.05	13.71b	139
BEAVER RIVER	,										
Beaver Race Track Beaver Canyon Power House		Data De	ayed	0.0		Not Av	ailable				
Big Flat Merchant's Valley (Upper) Otter Lake	3/27 3/27 3/27	84 55 67	29.2 22.6 24.1	8.5 5.7 7.1	17.2 9.9a 13.9	3/27 3/27	10.00		27.28 25.20	16.39 13.83a	166 182
PAROWAN CREEK											
Birch Crossing Brian Head	4/3 3/27	14 72	5.0 25.7	0.7 9.7	5.3a 20.7a						
Ed Ward Flat Tall Poles Yankee Reservoir	4/3 3/27	Disconti 43 26	nued 16.5 10.4	3.3 7.8 4.9	7.0 14.2a 8.8	4/3 3/27	7.10 3.30		19.70 14.50	17.89a 11.79b	110 123
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek Long Flat	4/1 4/1	0 16	0.0 7.4	0.0	1.1b 4.8	4/1 4/1	14.30 6.00		20.75 15.60	13.03b 10.95b	159 142
COAL CREEK											
Cedar City Golf Course SUSC Ranch	4/3 4/3	0 27	0.0	0.0	 5.4a						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A) Black's Fork G.SEast Fork	3/27	elayed 39	11.0	3.8 6.4	 9.4b	3/27	2.88		13.81	11.87ь	116
Black's Fork Junction Buck Pasture (A)		31 elayed	9.8	6.4 9.7	9.3b 	3/27	2.47		12.82a	11.53b	111
Burnt Creek Dutch John Junction	3/31	13	1.6	2.0		3/31	2.45	1.486		9.01b	85
Grizzly Ridge Henry's Fork (A)	3/31 Data D 3/27	31 elayed 35	9.3	3.3 9.5 6.7	 9.9	3/31	3.70		12.80	13.44b	95
Hewinta G.S. Hickerson Park Highline Trail	3/27 3/27	25 41	6.2	4.8 6.1	6.3b	3/27 3/27 3/27	2.66 2.26 3.05	1.64a	14.25 7.56	12.50b 8.29a	114 91
Hole-in-the-Rock Hole-in-the-Rock G.S.	Data D	elayed elayed	11.1	3.4	6.0	3/2/	3.03		13.53		
King's Cabin (lower) King's Cabin (upper)	3/27 3/27	30 41	9.3 12.6	1.2 3.2	8.5 10.4	3/27	3.65	2.16	12.60	11.26	112
Middle Beaver Creek Reynolds Park (A)	Data D	elayed elayed	30.0	1.4 5.7	5.1	0.407					
Spirit Lake Steel Creek Park	3/27 3/27 3/27	37 58 38	10.8 17.4 10.6	7.9	13.0b 15.8b	3/27	2.90		12.27	14.16b	87
Trout Creek Windy Park (A)	Data D		10.6	4.6 3.1		3/27	3.05		10.87		
DUCHESNE RIVER											
Atwood Lake (A) Brown Duck Ridge	Data D 3/28	elayed 66	21.4	4.0 7.0		3/28			17.98		
Chepeta-Whiterocks (A) Currant Creek	Data D 3/29	32	12.1	6.7 0.9	 8.2b	3/29	3.95		16.98	13.62	125
Daniels-Strawberry Summit East Portal	3/29 3/30	46 36	19.8 14.0	6.7 5.0	14.1 10.8	3/29 3/30	5.80 4.47	3.01 2.49b	25.93 22.70	17.61 18.17b	147 125
Five Points Lake (A) Indian Canyon Jackson Park	Data D 3/29 3/28	elayed 48 51	16.9 15.1	6.1 3.1 5.1	13.1 12.7	3/29	5.35	I	18.31	13.28b	138
Jackson Park Lakefork Basin (A) Lakefork Mountain	Data D 3/28)	11.8	7.6 3.1	12.7	3/28	1 16	2 02	15.33	12.80a	120
Lakejork Mountain Lakefork Mountain #2 Lakefork Mountain #3	Not me 3/28		7.6	0.0	7.4	3/20	1.16	2.02	14.76	12.24	121
Lightning Lake (A) Mosby Mountain	Data D 3/28		11.8	2.0	9.6	3/28	3.65	1.67a	14.88	10.83a	137
Paradise Park	3/28	51	15.4	3.2	12.1	3/28	3.25	1.946		14.89b	102

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD Water Content (inches)		CURRENT INFORMA		(Inches)		TO DATE	
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inchas)	Last Year	Average †	Date of Reading	Month's Precipitation	Average +	This Year	Average +	
DUCHESNE RIVER											
Rock Creek Ranch Strawberry Divide	3/28 3/30	24 59	8.6 24.4	0.8 8.2	5.9 18.9	3/28	1.04		13.32	10.93	122
PRICE RIVER											
Corral Dry Valley Divide Gooseberry Reservoir Grassy Trail-Left Fork Jones Ranch Mud Creek Timberline White River #1 White River #2 White River #3	3/31 3/29 3/30 3/31 3/30 3/30 3/31 3/29 3/29 3/29	32 32 64 42 15 43 58 43 27 23	13.0 13.5 26.2 17.1 5.4 16.3 20.6 17.7 11.4	0.0 3.0 9.2 0.0 0.0 3.8 3.3 5.1 0.9	6.8 9.2 19.0 8.2 5.2 13.2 14.1b 12.6 7.5 6.6	3/30 3/30 3/29	6.25 3.85 4.60	3.18 2.60b 2.19	29.64 19.40 18.30	18.18 14.20b 13.27	163 137 138
SAN RAFAEL RIVER											
Buck Flat Huntington-Horseshoe Orange Olsen Red Pine Ridge Rush Pond Seeley Creek R.S. Stuart R.S. Upper Joe's Valley Wrigley Creek	3/28 3/30 3/30 3/30 3/28 3/28 3/30 3/30 3/28	62 86 11 52 55 62 27 35 50	24.4 35.8 5.0 22.0 20.2 24.9 11.8 15.2 17.2	8.3 13.1 0.0 8.5 5.2 7.2 0.1 3.2 5.3	16.2 23.7b 17.5b 13.6 16.8 7.2 10.0 10.8	3/28 3/30 3/30 3/28 3/30	3.00 2.30 4.70 4.00	3.01 1.05a 3.49 	25.65 11.35 26.98 17.05	17.30 8.98a 20.31 12.16	148 126 133 140
MUDDY RIVER											
Black's Fork Dill's Camp	3/28 3/28	55 51	21.7	5.4 4.7	13.2 11.8	3/28	4.30		23.03	14.33a	161
FREMONT RIVER											
Black's Flat-U.M. Creek Donkey Reservoir Fish Lake Johnson Valley	3/31 4/1 3/31 3/31	39 29 29 30	15.9 8.2 12.8 11.8	5.5 2.3 4.8 2.8	10.4 7.4b 6.0 5.8b	3/31	4.70 4.00	2.81 1.67	17.28 14.50	12.15 9.14	142 159
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat Camp Jackson LaSal Mountain (lower) LaSal Mountain (upper) Monticello City Park	3/28 3/28 3/29 3/29 3/29	40 44 40 65 0	14.8 18.5 16.2 24.2	2.4 1.2 3.4 7.0 0.0	11.8 11.2b 9.0 15.7	3/28 3/28 3/29	4.10 5.85 6.03	2.52b	15.72 21.75 22.30	18.02 15.92b 15.67b	87 137 142
ESCALANTE RIVER											
Widtsoe-Escalante Summit Widtsoe-Escalante #2 Widtsoe-Escalante #3	NOT ME NOT ME 3/31		15.6	0.0 1.6 2.7	5.9 8.4 10.2b	3/31	4.63	2.23	16.68	12.60	132
VIRGIN RIVER											
Kolob-Crystal Long Valley Junction Webster Flat	4/1 3/31 4/1	83 10 71	36.1 5.0 32.6	6.1 0.0 5.1	2.7 15.6	4/1	11.40	3.60	32.80	19.27	170
a - Partly Estimated b - Average of all past reco + - 1958-72 15 year average (A) - Aerial Marker Reading		than 15	years								





1978 ALBERS EQUAL AREA PROJECTION

UTAH



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		Vindy Park DUCHESNE RIVER	Atwood Lake Brown Duck Ridge Chepetra-Whiterocks Lakes Curront Creek Daniels-Strawberry Summit East Portal		Lakefork Mountain #2 Lakefork Mountain #2 Lakefork Mountain #3 Lakefork Mountain #3 Laghring Lake Mosby Mountain Paradise Plak Rock Creek Rock Creek Shadow Lake Shadow Loke Strowberny Divide West Fork of the Duchenne	PRICE RIVER Corrol Dy Valley Divide Grassy Trail Creek-Left Fork Mad Creek Timberline White River #1 White River #2	SAN RAFAEL RIVER Buck Flat Goosebruch Huntington-Horseshoe Orange Olsen Sted Pine Ridge Wish Pond Geeley, Creek	ley E.R	FREMONT RIVER Black's Flut-U.M. Creek Donkey Reservoir Fish Lake Johnson Volley	SOUTHEASTERN UTA Buckboard Flat Camp Jackson LaSal Mountain LaSal Mountain (upper) Monticello Park	ESCALANTE RIVER Widtsoe-Escolante \$ummit Widtsoe-Escalante #3 Widtsoe-Escalante #3	ction	dows	Numberii	Course and Course and Course and Course and Course and Course, So Course, So Marker On Marker On Precipital Site, Precipital
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NAME	-	Windy Park DUCHES	Atwood Brown Chepet Curron Daniels East Po	Indian Jacksor Kidney Lake Br	Lakefor Lakefor Lakefor Lightni Mosby Paradis Rock C Shadow Strawbs	PRICE Corral Dry Va Grassy Jones R Mud Cr Timberl White F White F	SAN RAFAEL RIV Buck Flat Gooseberry Reservoir Hunfington-Horseshoe Orange Olsen Red Pine Ridge Rush Pond Seeley, Creek	Strart K.S. Upper Joe's Valley Wrigley Greek MUDDY RIVER Black's Fork Dill's Camp	FREMONT RIVER Black's Flat-U.M. Cre Donkey Reservoir Fish Landon Volley	SOUTH Buckboor Camp Ja La Sal Mi Monfice	ESCALANTE RI Widtsoe-Escolante Widtsoe-Escalante Widtsoe-Escalante	Kolob-Crystal Long Volley Junction Webster Flot	RAFT RIVER Cleor Greek Meadows George Peak One Mile Summit ViPont	5	1017P 1017A 1017A 1017A 1017A 1017B 1017PS
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9	-														

Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

- U.S. Department of Agriculture Soil Conservation Service Forest Service
- U.S. Department of Commerce NOAA, National Weather Service
- U.S. Department of Interior
 Bureau of Reclamation
 Geological Survey
 National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association Board of Canal Presidents - Jordan River Emery Canal and Reservoir Company Moon Lake Water Users Association Ogden River Water Users Association Provo River Water Users Association Strawberry Water Users Association Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FEDERAL BLDG., - ROOM 4012

125 SOUTH STATE ST. SALT LAKE CITY, UTAH 84138

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COOPERATIVE SNOW SURVEYS

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"The Conservation of Water begins with the Snow Survey"

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